

**NOV  
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2016**

**UNION LEAGUE CLUB  
65 W. JACKSON STREET  
CHICAGO, ILLINOIS**

**AMERICA'S OLDEST  
STATE AWARD FOR  
SUSTAINABLE BUSINESS**

# **THE ILLINOIS GOVERNOR'S SUSTAINABILITY AWARDS**



**ILLINOIS SUSTAINABLE  
TECHNOLOGY CENTER**  
PRAIRIE RESEARCH INSTITUTE

## **Governor's Sustainability Awards**

The Illinois Sustainable Technology Center (ISTC) and the Office of the Governor are honoring twenty-five Illinois companies and organizations this year for their significant achievements in energy efficiency, waste reduction, pollution prevention and environmental programming.

Since 1987, the Illinois Sustainable Technology Center, a division of the Prairie Research Institute at the University of Illinois at Urbana-Champaign, has presented Governor's Awards to organizations in Illinois that have demonstrated a commitment to environmental excellence through outstanding and innovative sustainability practices. Any Illinois public or private organization is eligible to apply for an award. Winners are selected through a rigorous process of review and examination by ISTC technical assistance experts.

Governor's Sustainability Award winners are an elite group of committed leaders reducing environmental impact, contributing to the growth of a more sustainable Illinois economy. By prioritizing sustainability throughout their operations, programs, technology, products and company culture, they serve as a model within their industry and community.

"The linkage between sustainable policies and success in our businesses, our organizations and our communities have never been stronger. We are proud to call attention to these champions of sustainability who help lead the way by improving our quality of life through their responsible stewardship of people, profit and planet."  
Kevin C. O'Brien, Ph.D., ISTC Director

## 2016 Illinois Governor's Sustainability Awards

Presented by:  
Illinois Sustainable Technology Center (ISTC)  
Prairie Research Institute (PRI)  
University of Illinois at Urbana-Champaign

### Technical Symposium

8:30 **Continental Breakfast & Registration**

9:00 **Welcome**

Program Moderator: Debra Jacobson – Senior  
Operations Manager, ISTC

**Keynote Address** – *How Good Companies  
Become Great through Multidisciplinary  
Sustainability Collaboration*

John Bradburn - Global Waste Reduction  
Manager, General Motors

10:00 **Exhibitor/Coffee Break**

10:30 **Emerging Technologies and Research  
Surrounding Climate and Society**

- *Methods to Utilize CO<sub>2</sub>: Driving the Approach to Sustainable Power Plants*  
Kevin O'Brien, PhD, Director, Illinois Sustainable  
Technology Center
- *What Green (and other members of the algae family) Can Do For You*  
Lance Schideman, PhD, Research Scientist, Illinois  
Sustainable Technology Center

11:45 **Exhibitor/Coffee Break**

## **Awards Ceremony**

12:00 **Luncheon**

1:00 **Award Ceremony\***

Moderator:

Richard Winkel – Director of Policy, PRI

Kevin O'Brien – Director, ISTC

Welcome Remarks and Introduction

Mark Ryan – Executive Director, PRI

**Keynote Address** – *Sustainability within  
Wm. Wrigley Jr. Company*

Kim Frankovich – Global Sustainability Director,  
Wm. Wrigley Jr. Company

Remarks from Governor Bruce Rauner (Invited)

2:00 **Presentation of the Sustainability Awards**

Kevin O'Brien – Director, ISTC

Governor Bruce Rauner

3:00 **Adjourn: Photo Session & Networking**

\*Presentation of speakers subject to change.



## KEYNOTE SPEAKERS



### **John Bradburn**

John Bradburn is the Global Waste Reduction Manager for General Motors (GM). In this role, he leads the company's landfill-free initiative, which has resulted in an industry leading 131 GM operations around the world that reuse, recycle, and convert to energy all waste from daily operations.

Mr. Bradburn is an expert in waste reduction and recycling, and is dubbed GM's MacGyver for devising unconventional uses for everyday waste. He frequently mentors other companies pursuing zero-waste goals. Bradburn's responsibilities also include directing GM's design-for-the-environment program, implementing sustainable processes and technologies that reduce environmental impact and costs.

Mr. Bradburn frequently speaks at various sustainability-focused events and has been recognized by the Society of Automotive Engineers with four Environmental Excellence in Transportation awards for material development and reuse and recycling projects. In 2015, Bradburn received the Presidential Lifetime Service Award from the Office of the President of the United States for sustainability services to youth.

Mr. Bradburn has worked for GM for more than 35 years. He earned a Master of Science degree in hazardous waste management from Wayne State University in Detroit in 1995, and a Bachelor of Science

degree in conservation from Northern Michigan University in 1978. He is a Certified Hazardous Materials Manager.



### **Kim C. Frankovich**

Kim Frankovich is the Global Sustainability Director of the Wm. Wrigley Jr. Company (a subsidiary of Mars Incorporated). She is responsible for Wrigley's sustainability strategy and embedding programs, policies and processes within functional, regional and local business units that will deliver Wrigley and Mars' sustainability commitments. Prior to joining Wrigley, she served as Vice President Sustainability for Solo Cup Company, a single use packaging manufacturer. Before moving to sustainability, she spent 12 years as a securities and finance attorney at Solo Cup Company, Baxter International and with law firms in St. Louis and Chicago. Kim holds a J.D. from Notre Dame Law School in South Bend, IN and a B.S. in Economics from Westminster College in Salt Lake City, UT.

## **ADDITIONAL SPEAKERS & MODERATORS**



### **Debra F. Jacobson**

Debra F. Jacobson, CSP, Senior Operations Manager manages the Technical Assistance Program at the Illinois Sustainable Technology Center (ISTC) a unit of the Prairie Research Institute at the University of Illinois.

In addition to her work within Illinois, Ms. Jacobson is an auditor for the Sustainable Green Printing Partnership (SGP) and is also Director of the USEPA OECA funded Printer's National Environmental Assistance Center established in 1995, one of the 19 national compliance assistance centers.

Ms. Jacobson is an active member of numerous national, regional and local professional and trade associations, including the Air & Waste Management Association (AWMA).



### **Kevin C. O'Brien**

Kevin C. O'Brien, Ph.D., is the Director of the Illinois Sustainable Technology Center (ISTC) – an organization dedicated to the use of sustainability to drive economic development within the state of Illinois. The ISTC assist organizations in enhancing their "Triple Bottom Line", i.e. impact on people, planet, and profits. This enables job growth and regional development while maintaining the natural resources of Illinois.

Dr. O'Brien's over two decades of experiences range from early stage venture organizations to Fortune 500 corporations. This experience enables him to infuse entrepreneurial spirit within multi-national organizations. He has managed multi-million-dollar programs related to renewable and sustainable technologies and practices in the U.S. and abroad. His international project experience includes Europe, Middle East, and Asia. Among his professional awards are R&D Magazine's R&D 100 award and a Federal Laboratory Consortium Award for Technology Transfer.

His experience includes close collaboration with the US Department of Energy on a variety of sustainable and energy efficiency based projects.



### **Mark R. Ryan**

Mark R. Ryan recently was appointed Executive Director of the Prairie Research Institute at the University of Illinois. Prior to that he spent 31 years at the University of Missouri. There he held the William J. Rucker Endowed Chair in Wildlife Conservation and a Curator's Distinguished Teaching Professorship at the University of Missouri (MU). For his last 10+ years he served as Director of MU's School of Natural Resources.

Dr. Ryan holds a B.S. in Wildlife Science from the University of Minnesota, a M.S. in Wildlife Biology and Ph.D. in Animal Ecology from Iowa State University. At the University of Missouri, Dr. Ryan received the prestigious Wm. T. Kemper Award for Teaching Excellence in 1993. And, in 2001 he was recognized with U.S. Dept. of Agriculture's National Award for Excellence in College and University Teaching. He received MU's President's Award for Outstanding Teaching in 2004 and, in 2006, the MU Alumni Association awarded him their Faculty Alumni Award.

Dr. Ryan's research program is focused on the ecology and conservation of birds in grassland, wetland, and agricultural ecosystems. His primary research foci since the early 1980's has been related to endangered bird ecology and conservation (with special emphasis on Piping Plovers) and on the impacts of federal farm

legislation on the population dynamics of grassland birds. He has published over 75 refereed journal articles, including several related to teaching and learning. Dr. Ryan was elected as a Fellow of The Wildlife Society, the international professional society of his discipline in 2012.



### **Lance Schideman**

Dr. Schideman is a senior research scientist at the Illinois Sustainable Technology Center, a division of the Prairie Research Institute at the University of Illinois. His research program there is strategically focused at the nexus of water and energy with a long-range goal of developing innovative systems that simultaneously provide bioenergy and water purification. A major achievement of his work in this area is the Environment-Enhancing Energy system, which combines algae cultivation and hydrothermal liquefaction to provide wastewater nutrient removal, carbon capture, and algal biofuel production. A recently published analysis of this novel approach showed the potential to replace all US petroleum imports with biofuels derived from wastewater inputs. While at the university, Dr. Schideman has also worked as an assistant professor in the Agricultural and Biological Engineering Department, served as the director of thesis research for 17 students in three departments, and has been the faculty sponsor for the student chapter of the Water Environment Association and the Illini Algae Club.

Dr. Schideman previously worked for over 10 years as an environmental engineering consultant with Camp,

Dresser & McKee (now CDM-Smith). While there his work included pilot testing and design of full-scale facilities for solid waste recycling and municipal water/wastewater treatment. These projects included leading-edge membrane filtration facilities in Manitowoc and Racine, Wisconsin, and the teams working on these projects received several awards including the 2006 Best in Class Award from the Wisconsin Consulting Engineers Council.

Dr. Schideman received BS, MS, and Ph.D. degrees in Civil and Environmental Engineering from the University of Illinois, where he also received a wide range of honors including the Ira O. Baker Memorial Award, the Richard and Mary Engelbrecht Award, US EPA STAR Fellowship, and the American Water Works Association Academic Achievement Award for his doctoral thesis. During his graduate studies, Dr. Schideman also worked at the US Geological Survey Water Resources Division to quantify trends in the nutrient loads of Illinois streams, and he spent one year as a visiting scholar at Qinghua University in Beijing, China as a part of the prestigious Luce Scholars Program.



**Richard J. Winkel, Jr.**

Richard J. Winkel, Jr. is Director of Policy, Prairie Research Institute, University of Illinois, where he is developing a policy research program related to natural and cultural resource conservation and management, initially focusing on water-related issues with special emphasis on supporting the Resilient Watersheds Initiative, as well as energy and public health initiatives.

Winkel is also the Director, Office of Public Leadership, Institute of Government and Public Affairs, University of Illinois, where he is responsible for leading the Edgar Fellows executive leadership program, its alumni, and a campaign to raise \$8 Million to endow the program.

Winkel was an Illinois state senator from 2003 to 2007 and a state representative from 1995 to 2003. Winkel practiced law for 24 years in civil practice. Winkel earned his undergraduate degree at the University of Illinois at Urbana-Champaign (B.A. Economics, 1979) and law degree at DePaul University College of Law (J.D., 1982).

## **EXHIBITORS**

Andersonville Sustainable Community Alliance  
ARCOA Group  
ComEd  
Connexion  
Crain's Chicago Business  
DQS Inc.  
E3Tec Service, LLC  
Earth Friendly Products  
Energy Resources Center  
Forest Preserve District of Cook County  
Illinois Environmental Regulatory Group  
Illinois Sustainable Technology Center  
Midwest Energy Efficiency Alliance  
Milieu-Nomics, Inc.  
Mostardi Platt  
PortionPac Chemical Corporation  
RadTech/IUVA  
Rockford Park District  
Roscoe  
SC-B Consulting, Inc.  
University of Illinois at Chicago  
US EPA Safer Choice Label Program



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## Table of Contents

<b>Governor's Sustainability Award Winners</b>	<b>Page</b>
Abbott Laboratories .....	14
AbbVie .....	15
Andersonville Sustainable Community Alliance ....	16
Argonne National Laboratory .....	17
CDW .....	18
City of Geneseo .....	20
City of Naperville .....	20
The Clarke Group .....	21
ComEd .....	23
Earth Friendly Products .....	24
Field Museum of Natural History.....	26
Forest Preserve District of Cook County .....	27
Golden State Foods .....	28
Griffith Foods .....	29
Lewis & Clark Community College .....	30
Manchester Tank & Equipment Co. ....	31
Marathon Petroleum Company LP, Illinois Refining Division .....	32
Midwest Energy Efficiency Alliance .....	34
Peoria County .....	35
PortionPac Chemical Corporation .....	36
Quaker Foods North America, a division of PepsiCo .....	37
Rockford Park District .....	38
Roscoe .....	40
United Airlines .....	41
University of Illinois at Chicago .....	42
Conference Greening Elements .....	44
Sponsor Advertisements .....	45

## **Governor's Sustainability Award Winners**

### **Abbott – Abbott Park**

#### *Previous Winner*

Abbott helps people unlock all that life has to offer through the power of health. Founded by a Chicago physician, Dr. Wallace C. Abbott, more than 125 years ago, Abbott is now one of the largest diversified global health care companies. Abbott creates new solutions – in diagnostics, medical devices, nutrition and branded generic pharmaceuticals – that help people around the world, in all stages of life, live their best lives through better health.

As part of their work to help people build better lives and stronger communities, they work to reduce the environmental impact of their business in Illinois and around the world. They have aggressive 2020 goals to reduce emissions by 40 percent, water use by 30 percent, and waste by 50 percent (adjusted for sales).

In 2015, Abbott reduced its greenhouse gas emissions worldwide by more than 15,000 metric tons, or 10 percent, as compared to 2014. This reduction was driven by switching to less carbon-intensive fuels along with implementing a number of energy reduction projects. Abbott has reduced the waste generated at its corporate campus, Abbott Park, by 17 percent, or approximately 1.2 million pounds. It also reduced the amount of waste that is disposed of in a landfill by about a third, more than 1.1 million pounds. Abbott reduced its Lake County water intake by approximately 79 million gallons, a 35 percent reduction.

## **AbbVie – North Chicago**

### *Previous Winner*

AbbVie is a global, research-based biopharmaceutical company that markets medicines in more than 170 countries. The company's mission is to use its expertise, dedicated people and unique innovative approaches to develop and market advanced therapies that address some of the world's most complex and serious diseases. AbbVie employs approximately 8,000 people in Illinois and 28,000 worldwide.

By 2020 AbbVie, as a whole, aims to achieve: • 20 percent reduction in CO<sub>2</sub> equivalent emissions • 20 percent reduction in total water intake • 20 percent reduction in total waste disposal (normalized by sales) • 20 percent reduction in recordable incidents (absolute). The projects and benefits associated with AbbVie's award reflect their ongoing efforts to foster and promote sustainable practices.

Throughout 2015, AbbVie cross-functional teams in Lake County worked together and in collaboration with AbbVie Suppliers, to develop and implement numerous projects with environmental, economic, and social benefits. Overall, the projects resulted in annual energy reduction of 2,331,101 kWh, 2204 metric tons of CO<sub>2</sub>e emissions reduced, netting an annual savings of \$693,923; and surveying and engaging more than 100 vendors within AbbVie's supply chain to promote sustainability practices and projects resulting in energy, CO<sub>2</sub>, and waste reductions within the vendor's operations that in turn benefit the environment and help AbbVie reach its sustainability goals.

AbbVie's environmental stewardship initiatives help to build a strong organization that focuses not only on improved efficiencies and cost reduction, but also on sustainable approaches to pharmaceutical manufacturing. AbbVie works diligently to ensure minimal environmental impacts by recognizing three key environmental priorities: climate change, water usage, and waste management and product stewardship.

### **Andersonville Sustainable Community Alliance - Chicago**

*First Time Recipient*

The Andersonville Sustainable Community Alliance (ASCA) supports a vibrant and resilient Andersonville through innovation, education, and research. They are a registered 501-C3 not-for-profit organization with just one full-time staff person.

In 2015, through their composting initiatives, 22.2 tons of food waste were diverted away from landfills. Their historic district street side recycling program also diverted 5.7 tons of paper, 0.6 tons of plastic and aluminum, and 1.3 tons of glass. They repaired 14 garbage cans, beautifying the public way while avoiding the environmental costs of creating brand new garbage cans. Thirty-two (32) tree grates were repaired and leveled, making sure the metal no longer girdles the trunks of valuable trees. Eight new trees were planted in the public way, and six bike corrals were installed that now provide up to 66 on-street bike parking spots.

Through their Green Building Incentive Program they

helped five neighborhood businesses with rebates to convert from inefficient halogen/incandescent lights to energy-efficient LEDs. They also provided technical assistance to these businesses in obtaining rebates available through ComEd's Small Business Energy Savings program. Three small businesses that worked with ASCA installed lighting retrofits in 2015, resulting in a collective reduction of 48 percent in their overall electric usage with more than 1,700 kWh of energy, on average, being saved each month and a savings of \$490 per year per business. The projected aggregated net savings for these three small businesses following their retrofits is \$1,468 per year.

### **Argonne National Laboratory – Lemont**

Previous Winner

Argonne is a multidisciplinary science and engineering research center, where world-class researchers work to address national challenges in clean energy, environment, technology and national security. The Sustainability and Environmental Program yielded energy and water efficiency improvements and reduced pollution. In FY15, Argonne progressed toward its sustainability goals, in some instances meeting their goals years ahead of schedule. Potable water intensity dropped 41 percent below baseline, over three times their 16 percent target and ten years ahead of the 36 percent FY25 reduction goal. Argonne also exceeded their 30 percent energy intensity reduction target by achieving a 34 percent reduction.

Argonne employs innovative funding solutions such as the three Energy Savings Performance Contracts (ESPCs) and an Energy and Water Savings Reinvestment

Program, netting over \$2.4 million savings in FY15. Through a fourth ESPC, the Lab's Combined Heat and Power plant was constructed this year. The plant will provide over 80 percent of the site's steam needs annually while producing about 6 MW of electricity as a by-product, reducing GHG emissions by over 35,000 metric tons/yr and providing energy cost savings of over \$2 million/yr. In addition, in FY15 Argonne accomplished the following environmental milestones:

- achieved DOE High Performance Sustainable Building recognition for 15 percent of its campus buildings
- launched an employee electric vehicle charging program
- kicked off a multi-phase, climate change vulnerability assessment to identify risks associated with global warming; and took a leadership role in transportation planning by assisting the Department of Energy's Sustainability Performance Office to find ways to improve alternative commuting strategies at federal facilities.

## **CDW – Vernon Hills**

### *First Time Recipient*

CDW is a leading provider of integrated information technology solutions. They assist customers by delivering critical solutions to their increasingly complex IT needs. A Fortune 500 company with multinational capabilities, CDW was founded in 1984 and employs more than 8,600 coworkers. Their broad array of offerings ranges from discrete hardware and software products to integrated IT solutions such as mobility, security, cloud, data center and collaboration.

In 2009 CDW achieved ISO 14001 certification for their 450,000 square foot distribution center located in

Vernon Hills. They have expanded and developed their environmental and sustainability efforts since then. In support of better management, a cross functional team was formed that spans multiple departments working together to identify environmental aspects to improve pollution prevention, waste minimization, and energy usage.

As a result of these companywide efforts a number of energy and resource savings initiatives have been implemented. Delivery scheduling improvements have led to a 78 percent reduction in wait time for drivers delivering products, improving efficiency and reducing idling. Motion sensors now control the warehouse conveyor system, powering the conveyor down after 5 minutes of inactivity. This has resulted in a 9 percent reduction in overall energy usage.

By working with their vendors, CDW has expanded the types of materials they recycle, including hard and soft plastics, universal waste, polystyrene, toner, strapping and metal. They have enhanced their recyclable corrugated collection system by adding barcodes to boxes, whereby the recyclable corrugated is now conveyed directly to the baler.

They have reduced their total amount of waste from 400 tons or 23.3 percent of total annual facility output in 2009 to 127 tons or 8.7 percent in 2015, a 63 percent reduction in six years and a 94 percent reduction in landfill trash compactor pickups. A cafeteria composting program was implemented in December 2015 that diverted 3.43 tons of organic material from landfill just in the first month.



## **City of Geneseo**

### *First Time Recipient*

The City of Geneseo is home to 6,549 residents and is located near Interstate 80 just 20 minutes by interstate highway to Quad City International Airport. Their Victorian charm is evidenced in the architecture of the community, and their Midwestern work ethic is as strong today as it was when ancestors established Geneseo in 1837.

The City has identified and implemented a series of projects that have substantially reduced the environmental impact of the community. These include installation of two wind turbines in 2008, E-waste collection programs, LED street lights, etc. Most recently the City installed a 1.233mW ground-mounted solar array on the electric department's land, near the intersection of Interstate 80 and Illinois Route 82. The project will provide sustainable and clean electricity to over 3,687 residential and commercial meters, servicing nearly 7,000 residents.

## **City of Naperville**

### *Previous Winner*

From its 1831 incorporation to today's standing as Illinois' fifth largest city, Naperville's story is one of progress and innovation. With an appreciation for the City's agrarian roots and a shared commitment to preserving natural resources, Naperville believes that living, working and exploring the community in an eco-friendly way starts with partnerships. It is through these collective efforts that the City has proudly accomplished 49 initiatives in its 2010 Sustainability

Plan, laying the groundwork for a healthy community for generations to come.

Today, Naperville residents in tree-lined neighborhoods enjoy a vibrant urban canopy, including thousands of ash trees. Eighty seven percent of the parkway ash trees have been saved thanks to the City's leadership in combating the destructive Emerald Ash Borer. The surviving ash trees provide an environmental and economic benefit valued at \$2.1 million annually.

A water leak detection survey was conducted by city departments to locate water leaks in the public water supply system using acoustical detection systems. These efforts have helped save 789 million gallons of water between 2011 and 2015. LED streetlights save the community almost 1.7 million kWh each year, resulting in a savings of more than \$642,000. Electric vehicle owners can charge their vehicle at one of four public charging stations.

A new Environmental Collection Campus provides a convenient, easy way for all Illinois residents to dispose of household hazardous waste (HHW), electronics, and everyday household recyclables. Since 2010, almost 3.1 million pounds of HHW have been collected and properly disposed. Their Prescription Drug Drop Box Program has kept 4,165 pounds of medications out of the wrong hands and out of our waterways and landfills.

### **The Clarke Group – St. Charles**

*Previous Winner*

Clarke is a global environmental products and services

company providing innovative solutions for mosquito abatement and the management of healthy water resources. Their mission is to make communities around the world more livable, safe, and comfortable by pioneering and championing environmentally responsible products and business practices.

In 2015, Clarke demonstrated their continuing commitments to sustainability by:

- Installing a 100 KW solar array at its Corporate and Research facility in St. Charles; 348 panels are projected to generate 131,800 kWh of electric power per year for the facility. The panels supply 20 percent of the facility's electricity needs (8 percent of the Company's total electricity consumption). The power produced by the solar array is projected to reduce their carbon emissions by 85.93 metric tons per year.
- Installed an enhanced Electric Vehicle Car Charging Station with EV charging capacity for 8 vehicles which consists of four dual Port 240 V 40 Amp Electric Vehicle (EV) chargers, capable of charging a vehicle in approximately 4 hours
- Reconstructing their building to create an open floor plan and glass south-facing façade to optimize natural light and reduce need for artificial lighting. Fluorescent box lights were replaced with high efficiency T5 fluorescent fixtures. Acoustic tile drop ceiling tiles were removed to increase air flow and minimize HVAC needs.

In 2015, Clarke consolidated its Illinois operations, which helped reduce their electricity consumption by 4.8 percent and reduced natural gas consumption by 28.4 percent, resulting in a reduction of 113 metric tons of carbon emissions and a savings of \$18,700.

Clarke has committed to donating one percent of their annual revenues from next generation products and

services to non-profit organizations striving to restore and preserve the environment. Seven organizations were selected to receive a total of \$161,000 (distributed in early 2016). In addition, Clarke employees donated 3,717 hours of paid time to volunteer in the community (valued at \$110,918 of payroll) through their annual Day of Caring and other volunteer activities.

### **ComEd – Oak Brook Terrace**

#### *Previous Winner*

Commonwealth Edison (ComEd) is a unit of Exelon Corporation, a publicly traded energy utility. ComEd delivers electric service to 3.8 million customers across 11,400 square miles of northern Illinois, to approximately 70 percent of the state's population. They are an ISO 14001 certified organization and have been recognized for their environmental efforts by many organizations in the last few years including the US EPA, US Fish & Wildlife Service, Chicago Wilderness, and Wildlife Habitat Council.

ComEd believes that their ability to serve customers, create value for investors, and contribute to their employees' and communities' shared expectations for the future directly depends on how well they manage their interactions with the environment. ComEd is committed to continually improving environmental performance; preventing pollution; preserving, restoring, and enhancing habitats and biodiversity; and actively seeking relevant partnerships. For ComEd, sustainability is reflected in their corporate environmental policy; it is part of their culture, business strategy, and a key component of how they are working to power all our lives for generations to

come. They work with customers to reduce energy consumption through deployment of smart meters and smart streetlights that benefit the entire region as well as the various energy incentive programs for both residential and commercial customers.

ComEd has increased their sustainability portfolio through employee engagement in a green team, Earth Day events, and a fun and educational employee calendar. Mosquito control is necessary to protect the health and welfare of employees working in the field. ComEd has partnered with Clarke Group of St. Charles to implement an environmentally safer mosquito control program.

In their existing operations and office buildings, they have installed building automation and HVAC upgrades, along with lighting replacements that carry a projected saving of over 1,100 MWh annually. In 2015, ComEd completed construction of a new, innovative, LEED certified building, used for training. The development included remediation of a property classified as a brownfield previously contaminated with heavy metals and hydrocarbon chemicals.

### **Earth Friendly Products – Addison**

*Previous Winner*

Earth Friendly Products (EFP), a pioneer in the manufacturing of green household and commercial cleaning products with roots dating back to 1967 as Venus Labs, has undertaken the role to create green products in the most environmentally-friendly manner. EFP has been making green a priority for two decades with more than 150 naturally derived and

environmentally-friendly home and industrial cleaning products. Earth Friendly Products makes household and commercial cleaning products using plant-based ingredients and environmentally friendly production processes. The continued dedication of its founder, Van Vlahakis, closely involved family members, capable management, chemists, and production employees, has produced a success formula and a strong foundation for further growth.

EFP is a primary manufacturer with five facilities strategically located throughout the U.S., allowing them to source locally and ship locally. This reduces their costs and enables them to pass those savings on to consumers, making their green products a great value. Consumers also increasingly value third-party certification for safety standards, so EFP has gone through the rigorous process of certifying many of their ingredients with the coveted EPA "Safer Choice" certification. In fact, EFP has more Safer Choice-certified products than any other manufacturer.

EFP achieved carbon neutrality at all five of its manufacturing facilities through a series of major initiatives, including the switch to 100% renewable electricity in 2010, making EFP the first carbon neutral manufacturer in the United States. In addition, EFP received the prestigious Zero Waste Platinum certification from the U.S. Zero Waste Business Council, at all five of its facilities. It certifies that EFP diverts over 95 percent of all its waste from landfills and incineration through innovative reducing, recycling, and reusing programs.

EFP is committed to working with suppliers and

vendors towards sustainable manufacturing practices. Each supplier is evaluated and is expected to pursue a policy of continuous improvement and be forthright in sharing relevant information with EFP. EFP is also committed to its employees and the betterment of society. They provide comprehensive health and wellness programs and incentives. They pay employees a living wage (minimum \$17 per hour) and offer employees “green” financial incentives, such as \$2,000 for purchasing an environmentally friendly vehicle, \$1,000 to relocate their home close to EFP’s facility; and \$2,000 to install solar panels at their homes.

### **Field Museum of Natural History – Chicago**

#### *First Time Recipient*

The Field Museum inspires curiosity about life on Earth while exploring how the world came to be and how we can make it a better place. The Museum invites visitors, students, educators, and scientists from around the world on a journey of scientific discovery. The Field Museum strives to actively demonstrate its mission through its building operations, leveraging its commitment to sustainability to help engage and educate the public. Beyond its numerous conservation activities related to scientific research at the museum, the Field has completed multiple ambitious projects to improve building operations and management. Much of the work centered on assessing indoor air quality for both exhibition space and sensitive artifact storage, improving energy and water tracking, upgrading lighting and controls, and reviewing landscaping and onsite renewable energy.

In 2015 alone, it increased waste diversion by over

430,000 pounds and continues to expand composting; replaced 30 percent of its more than 20,000 fixtures with LEDs; offset its energy usage with renewable energy; implemented a native landscaping plan; and reduced water usage in fixtures by 33 percent below the Universal Plumbing Code levels. These efforts culminated in the Field achieving LEED Gold certification in 2015 - a difficult feat for a nearly 100-year-old, historically significant building that maintains nearly 30 million biological species and cultural artifacts. It is believed that the Field is the oldest museum building to achieve LEED. Through careful research, engaging staff, and testing innovative strategies, the Field continues to integrate sustainability into the whole of its operations.

### **Forest Preserve District of Cook County – River Forest**

#### *First Time Recipient*

The Forest Preserve District of Cook County (FPDCC) is engaged in sustainable practices across all its departments. In order to understand where opportunities lay with regard to materials management and waste reduction, FPDCC engaged ISTC to conduct a comprehensive assessment and implementation of improvement strategies.

As a result of their collaborative efforts, FPDCC has installed recycling stations for special events using 125 bins purchased with grant funds from Coca Cola Foundation's Keep America Beautiful grant program. These "On-the-Go" recycling stations support public recycling in open public spaces and set FPDCC apart from most other land preservation systems by offering



this sustainable option to visitors. A toolkit with recycling labels was also designed so that old 55-gallon drums could be used as recycling containers in the Preserves.

Most of the buildings in the FPDCC are LEED certified, or in the process of becoming certified as LEED compliant, meeting LEED silver and/or gold standards. This process includes installing LED bulbs in all light fixtures through the headquarters and downtown office buildings. Printers are now default set to double side print. Green cleaning supplies are now purchased in place of traditional hazardous or toxic cleaners, which help protect employees, the environment and saves money for the FPDCC.

A campaign to reduce salt used in winter resulted in a reduction of use from over 381 tons of salt to 201 tons per winter season. In the summer months certain zones in the Preserves have been designated as “no mow”, allowing the natural flora to grow as well as cut back on fuel usage. In addition, in order to reduce emissions, 32 riding mowers have been converted to run on propane gas versus diesel fuel.

### **Golden State Foods – McCook**

*Previous Winner*

Golden State Foods (GSF) is one of the largest diversified suppliers to the quick service restaurant and retail industries. Established in 1947, GSF currently services more than 125,000 restaurants from its 45+ locations on five continents. With approximately 5,000 associates worldwide, GSF’s core businesses include processing and distribution of liquid products, meat

products, produce, dairy, and other services for the total supply chain spectrum. At Golden State Foods, corporate social responsibility and sustainability are the continued embodiment of the company's Creed and Values, fostering a culture that embraces the responsibility to future generations and ensures that sustainable practices are at the heart of its business. After winning the 2015 Illinois Governor's Sustainability Award, GSF Chicago continued to strive for excellence by reducing fleet miles driven, reduction in road and reefer fuel consumption, improvement in electricity usage, incorporation of green/compostable items in associate break rooms, and giving back to children through their GSF Foundation activities.

### **Griffith Foods – Alsip**

*Previous Winner*

Griffith Foods (formerly Griffith Laboratories) is a family owned, privately-held manufacturer of customized food ingredients with global operations in more than 18 countries. The company was renamed in 2015. Their new brand and logo brings their purpose and focus on sustainability to life by combining three elements into one powerful image – a hand, representing care for people, customers and communities; a fork, representing creativity in bringing innovative solutions to the world's challenges; and, the planet, highlighting their commitment to nourishing the world, and to fulfill the company's desire to be a vehicle for greater good.

Griffith first earned the Illinois Governor's Sustainability Award in 2015 and has continued to pursue new projects and initiatives to further achieve their sustainability goals. Griffith engaged external experts

to validate their sustainability management system, and evaluated their initiatives against customers' and partners' priorities.

As a result of these ongoing efforts Griffith has been able to: • increase cafeteria recyclable waste diversion by 50% to 15,000 pounds in 2015 • re-direct 1.3 million pounds of sludge, generated from the wastewater treatment process, from landfill disposal to land application for fertilizer; and engage suppliers to assure the ingredients they purchase are sustainably sourced from ethical suppliers.

In addition to operational improvements, Griffith has undertaken a number of community initiatives including collecting small electronics for recycling to support the United Cerebral Palsy of Greater Chicago; collecting Eyeglasses to support the Lions Club; and collecting used clothes and shoes for USAgain. They also continued their participation in the 30th Annual Hunger Walk to support the Greater Chicago Food Depository and donated pancake mix that supported over 200,000 meals for the 2015 Produce for Hunger initiative.

### **Lewis & Clark Community College – Godfrey**

*Previous Winner*

Lewis & Clark Community College (LCCC) is a two-year higher education institution with multiple campuses, a river research center, community education centers and training centers located in Godfrey. Since earning their first Illinois Governor's Sustainability Award in 2011, LCCC has continued to improve upon existing sustainability programs while implementing new

initiatives on its path to achieving campus carbon neutrality by 2058.

The college saw a drop in electricity consumption and an increase in renewable energy generating capacity, which led to a decrease in emissions. LCCC continued making progress in saving commuter miles and the associated emissions through their Green Pass incentive program and a statewide Electric Vehicle event.

The college received two grants to improve green stormwater infrastructure on campus in the form of bioswales and a pervious paver parking lot that helps reduce the velocity and volume of stormwater into local waterways. LCCC also expanded recycling and composting opportunities. Finally, Lewis and Clark Community College continued to lead their community and the student population by spearheading efforts to expand solar deployment in the City of Godfrey and eradicate invasive plant species on the college campus, among other outreach and education initiatives. LCCC is proud of their record of accomplishment as well as the recognition they continue to receive for such efforts from regional, state, and national partners. They continue to outpace their projected progress on path to campus carbon neutrality by 2058.

### **Manchester Tank & Equipment Co. – Quincy**

#### *First Time Recipient*

Manchester Tank is the premier manufacturer of pressure vessels for the containment of propane, compressed air, and chemicals with facilities in the United States, Canada, Australia, and Chile. The

company's broad product line includes Department of Transportation (DOT) approved steel and aluminum cylinders ranging in size from 5 to 420 pounds and American Society of Mechanical Engineers (ASME) approved steel tanks ranging in size from 1 to 30,000 gallons.

The Quincy facility has a mature Environmental Management System which is completely aligned with ISO14001. Environmental impact reduction projects, identified through the facility's Environmental Aspects and Impacts Assessments, either fully implemented or piloted during 2015 include: • compressed air usage audit which yielded process improvements and mitigation of compressed air system leaks • connection of a 15+gpm back-up compressed air booster pump • addition of a non-contact cooling water loop to an unused heat exchanger eliminating discharges to the sewer • institution of operational controls to maintain reduced rinse water flow rates and using rinse water to replenish process bath evaporative loss • evaluation of alternative metal cleaning solutions which meet POTW effluent guidelines for oil and grease allowing for direct discharge to the POTW rather than being hauled away for third party treatment; and evaluation of LED lighting fixtures to replace existing T-12 and T-8 fluorescent lighting fixtures. These projects have produced a number of environmental and economic benefits including: • water Savings – 3,720,600 gallons/year or \$19,844/year • electricity savings – 265,969kWh/year or \$14,982/year • GHG Reductions – 653,606#/year CO<sub>2</sub>.

**Marathon Petroleum Company LP,  
Illinois Refining Division – Robinson**  
*First Time Recipient*

The Marathon Petroleum Company LP (MPC), Illinois Refining Division, in Robinson, is committed to environmental protection and emphasizes resource conservation and the minimization of wastes, emissions and releases throughout its operations. The CARES Green Team at MPC is focused on recycling, reusing, and reducing waste.

Accomplishments at the Robinson refinery include implementing a new recycling program for control valves in 2015. The Fisher Core Recycling Program supports MPC's zero-waste initiative by taking used control valves into their inventory to be remanufactured so that the valves meet original equipment manufacturer (OEM) specifications. Unusable pieces are salvaged as scrap metal.

MPC invested \$1.3 million to install an innovative Minimum Steam Reduction System (MSRS), which employs a "hybrid" approach to flare tip cooling by utilizing a mixture of air and steam. This decreases the amount of supplemental gas required to maintain acceptable combustion, decreasing both flare steam demand and greenhouse gas emissions at low vent gas flare rates and saves \$1.4 million per year.

The Robinson refinery has also made significant strides in improving its plant energy efficiency and reduced greenhouse gas emissions through the operation of a Benzene Extraction Unit (BEU). The BEU removes 99.4 percent of the benzene in reformed gasoline. The system also saves 160,000 MM BTU of energy per year.

MPC sustains local plant and wildlife maintaining five wildlife habitats in Crawford County. Community

members are invited to the nature habitats by attending MPC-hosted Nature Days or enjoying the walking trails and pavilions. Each year the CARES Green Team also coordinates a number of events that benefit the facility, employees, and their community, including Household Hazardous Waste Collection Days, Waste Minimization and Pollution Prevention contests, and Nature Days.

### **Midwest Energy Efficiency Alliance – Chicago**

*Previous Winner*

Established in 1997, the Midwest Energy Efficiency Alliance (MEEA) is a collaborative network advancing energy efficiency in the Midwest for sustainable economic development and environmental stewardship. MEEA has been administering the Building Operator Certification (BOC®) program since 2003 with the support of the Illinois Department of Commerce and Economic Opportunity. BOC® has trained thousands of building operators in Illinois resulting in significant energy savings, workforce development for professionals in operations and maintenance (O&M), and job improvement opportunities, such as raises, bonuses, promotions, and new employment prospects.

In 2015, MEEA was able to take BOC® to the next level in Illinois with some new initiatives as well as improvements on existing programs. MEEA continued the work on the BOC® Veterans Program in Illinois, paving the way as the only training program for veterans in the O&M field throughout the nation. MEEA also identified an under-served area of the market for professional trainings, multifamily building operators, and created the first ever BOC® training

with a focus on multifamily. Multifamily buildings, or buildings with more than 4 units, make up about a quarter of the housing stock in Chicago and with the new requirements as part of the Chicago Benchmarking Ordinance, multifamily buildings are required to benchmark their energy usage.

With such success in 2015, MEEA is looking to the future in order to expand the offerings in multifamily and veterans building operator trainings.

## **Peoria County**

### *First Time Recipient*

Members of the Peoria County board identified a need to address sustainability concerns internal to county operations during its strategic planning sessions in 2009 and 2010. A Sustainability Team of Peoria County employees and environmentally-minded citizens was formed in July 2010 to identify areas of concern within the organization; research best practices; establish key elements, long-term objectives, and short-term goals; and propose a detailed plan of sustainable actions to the County Board. This team's efforts resulted in adoption of Peoria County's Sustainability Plan in August 2011.

Implementation of the plan began immediately thereafter to monitor energy and water usage and reduce solid waste. As a result of many individual and combined efforts between 2011 and 2015, the county's water use has decreased 18.7 percent and 6,212,140 gallons of water have been saved. Electricity use had decreased 1.1 percent for a savings of 114,181 kWh; and natural gas consumption has declined by 11



percent or 50,693 therms saved.

To promote the plan, an internal Green CREW (Conserving Resources and Educating Workers) comprised of County employees was formed to address the "Employees" element of the plan by encouraging co-workers to adopt more sustainable habits. These ambassadors serve as a resource to educate their peers about the programs available at each of the facilities.

### **PortionPac Chemical Corporation – Chicago**

#### *Previous Winner*

PortionPac Chemical Corporation has devoted fifty years as ambassadors for the use of cleaning materials that are less harmful to human health and the environment. PortionPac provides pre-measured, concentrated cleaning detergents along with education programs to its customers focused on maximizing performance of the cleaning products while minimizing environmental impact. Their cleaning systems are utilized nationwide in schools, universities, government/public buildings, manufacturing and correctional facilities.

In 2015 they undertook a complete overhaul of product formulations with special emphasis on achieving:

- no OSHA Hazard Communication Standard hazards
- improved performance and increased Green Seal™ commitment.

The OSHA Hazard Communication Standard gives users of chemical products the right to understand their exposure to potential dangers, and provides manufacturers with criteria for determining if a product has hazards. The revised OSHA standard created an opportunity for PortionPac to raise the bar by further reducing the footprint of their solutions.

Recognizing that in order for sustainable products to be accepted into the marketplace they must perform equal to or better than conventional alternatives, performance was made a cornerstone of reformulation. Each new product, though less hazardous than its predecessor, offers a measurable performance increase, using ASTM Standards, over the retired formulation.

PortionPac renewed their commitment to the most rigorous sustainable standard in the industry, Green Seal™. Every previously certified product was put through the recertification process, and never before certified products were brought into the fold. Their partnership with Green Seal™ provides customers a yardstick against which to measure efforts, cementing PortionPac Chemical Corporation's position as a leader in sustainability.

### **Quaker Foods North America, a division of PepsiCo Bridgeview**

*Previous Winner*

Quaker Foods North America (QFNA), a division of PepsiCo Inc., is one of the world's largest consumer packaged food companies. For nearly 140 years, Quaker's brands have served as symbols of quality, great taste and nutrition. Holding leadership positions in their respective categories, Quaker Oats, Quaker Rice Cakes and Quaker Chewy Granola Bars are consumer favorites. QFNA operates four production sites in the Midwest including a 393,000 square foot facility in Bridgeview, IL. QFNA is committed to sustainable business practices and recognizes the importance of environmental stewardship within both the

company and community. QFNA invests in innovative technologies that further its sustainability mission, improve manufacturing processes and produce tangible results.

In 2015, QFNA completed several new sustainability initiatives at the plant in Bridgeview. Natural gas savings projects included upgrading press air heaters to operate independently of the building heating system, boiler water control upgrades to minimize excessive blowdown, installation of high efficiency dock door enclosures and replacing a hot water boiler with a steam heat exchanger. Electricity savings projects included three LED lighting projects, completing a compressed air leak survey and subsequent repairs, upgrading two glue heaters to tankless technology and upgrading a product regrind system to use higher efficiency equipment. These initiatives resulted in reductions of 13,300 MMBtu/year of natural gas, reductions of 750,000 kWh/year of electricity and savings of \$110,000/year.

## **Rockford Park District**

### *Previous Winner*

Sustainability is a way of life in the Rockford Park District! From project design to day-to-day operations, sustainability means success and longevity. The Rockford Park District is committed to providing well-maintained facilities and assets that are clean and attractive, in good repair, preserved, and positioned for long-term use and sustainability.

The Rockford Park District Board of Commissioners adopted a Sustainability Policy in 2013 and it is

the responsibility of the Rockford Park District's Sustainability Team, Capital Planning & Asset Management department, purchasing department, and maintenance services division to oversee the development and establishment of the sustainability program.

A number of District-wide efforts were accomplished from 2014-2015 that exemplify sustainability in the Rockford Park District. These include new educational exhibits, responsible toxin disposal of materials stored at various Park District facilities, such as golf courses and parks maintenance buildings.

Rockford Park District implemented innovative solutions to managing ammonia containing waste water generated by the ice rinks. The 900 gallons of waste water is now land applied on a local farm that will act as fertilizer rather than a regulated waste that must be treated off site.

Energy efficient lighting upgrades, facilitated by the University of Illinois' Smart Energy Design Assistance Center's outreach efforts, led to the installation of more efficient lighting and occupancy sensors within 16 Park District buildings. The Park District has saved approximately \$7863 per year and eliminates 147 tons of carbon emissions.

Other water management and savings efforts included installing faucet aerators and replacing spray heads at Park District facilities. These replacement spray heads in bathroom showers, outdoor spray pads, and kitchens are saving approximately 3,560,689 gallons of water per year and 3,388 therms of natural gas for hot water.

## **Roscoe Company – Chicago**

### *Previous Winner*

Roscoe Company was founded in 1921 on the principles of sustainability - laundering and reusing textiles that were once discarded. This foundation of reuse has evolved over the years to include a variety of textiles and provides customers with alternatives to disposable products that find their way into landfills containing undesirable soiled materials. Roscoe installed the first wastewater pre-treatment system in the industry and holds a long history of sustainability. Roscoe's recent accomplishments include: • modified the wastewater pre-treatment process to use inert clay instead of ferric-chloride and installed a sludge filter press that dramatically reduced the solid waste from 60,000 gallons (8021 cubic feet) of liquid sludge to 78 cubic feet of de-watered waste annually, and elimination of the non-hazardous sludge, a by-product of the pre-treatment system • deployed reusable bags to customers to collect launderable items, eliminating 21,000 plastic bags annually • reduced consumption of water from 2.22gal/lb. of textiles to 1.13gal/lb. and natural gas consumption from 2737 BTU/lb. of textiles to 1516 BTU/lb. by upgrading equipment, including high efficiency natural gas unit heaters, in 2009 • reduced total consumption of electricity by 8 percent while increasing the lighting from 25 to 80 foot candles by installing high efficiency LED fixtures with motion sensors. Roscoe was certified by the Textile Rental Service Association through their Clean Green Certification program in 2012 and recertified in 2015 utilizing industry best practices resulting in above industry average resource conservation.

## **United Airlines – Chicago**

*Previous Winner*

United Airlines and United Express operate an average of 5,000 flights each day to 336 airports across six continents. In 2015, United and United Express operated more than 1.5 million flights carrying more than 140 million customers. United is committed to operating an environmentally sustainable and responsible airline, working to minimize the environmental impacts associated with their operations, and continuously looking for ways to reduce their footprint in the air, on the ground and at facilities.

United focuses on four key sustainability commitment areas including: • increasing fuel efficiency and reducing emissions • pioneering advances in sustainable aviation biofuel • sourcing sustainable products and efficient waste management • engaging local community in the area of environmental sustainability. In 2015, United continued to lead U.S. airlines in pioneering aviation biofuels and completed a number of projects related to Chicago O'Hare International Airport that positively engaged the community while also reducing their waste and carbon footprint.

In June 2015 United announced an historic \$30 million equity investment in U.S. based alternative fuels developer Fulcrum BioEnergy. Fulcrum BioEnergy is a pioneer in the development and commercialization of converting municipal solid waste into low-cost sustainable aviation biofuel. Since 1994, United has continuously pursued fuel efficiency measures, reaching

a 33 percent improvement to date. As a result United has prevented more than 300,000 metric tons of CO<sub>2</sub> emissions and 31 million gallons of fuel from being consumed.

Other recent efforts include installing two electric vehicle chargers at the Chicago O'Hare employee parking lot. Illy Caffè, a coffee company noted for their strong commitment to sustainability, fair trade and supply chain quality, has partnered with United and will be served on flights worldwide beginning the summer of 2016. Advertising banners that are being retired are now supplied to Chicago's Fashion School at Columbia College students to upcycle into travel bags, etc. Sales of the bags benefit charities such as Re:new Project, and the Eco-Skies Carbon Choice Alto Mayo Forest Carbon Project.

## **University of Illinois at Chicago**

*Previous Winner*

The University of Illinois at Chicago (UIC) is a state-funded public research-intensive university located in Chicago. Its campus, located on the Near West Side of Chicago and adjacent to the Chicago Loop, hosts approximately 29,000 students. Over the past two years, UIC has continued to make significant and measurable progress in its sustainability initiatives through comprehensive planning and engagement, operational improvements, and experiential student learning. As part of these efforts UIC developed the Sustainability Strategic Thinking Report: *To Green and Beyond* – Excellence through Sustainability at UIC. The report presents recommendations for UIC to apply sustainability principles and practices across its

educational mission.

The College of Cycling student group joined with the Food Recovery Network to deliver unused food from the cafeteria to a homeless shelter. The group makes weekly rides to the Pacific Garden neighborhood to deliver 30 to 80 pounds of food produced by campus kitchens. One month's donations help serve over 1,587 meals. This food would have otherwise been disposed of in a landfill.

The College of Medicine Learning Center, housed in an 83 year old building, has retrofitted learning spaces, auditoriums, classrooms, and spaces for small group study in order to increase engagement and retention. The project included a 70 percent efficient heat recovery system that saves approximately 15,900 therms of natural gas and 3,1000 kWh of electricity each year. Annual savings is estimated to be \$8,000.

Other initiatives include installation of a new boiler that saves approximately 568,000 therms of natural gas per year. Water losses due to piping leaks have been repaired and the heat exchanger chemistry has been changed to 316 stainless steel where possible, leading to a savings of 2,568,140 gallons of water per year. The energy savings performance contract with Ameresco is expected to save the equivalent of 18,979 metric tons of CO<sub>2</sub> each year.



## CONFERENCE GREENING ELEMENTS

We would like to thank the Union League Club of Chicago for working with us to provide a facility and services that met our expectations for environmentally sustainable event practices.

For today's event, we have arranged:

- Recycling in meeting rooms
- Collection of kitchen scraps and leftovers for composting
- Coffee, tea and water served in reusable cups and containers
- Food, condiments, and snacks served on reusable wherever possible

The Union League Club of Chicago has the following best practices in place at their facility:

- Support of the Farmers Market and local farmer
- Recycling in kitchen
- Ability for guests to reuse towels, bedding and toiletries
- High accessibility to mass transit



# Crain's Proudly Supports the Illinois Governor's Sustainability Award

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An advertisement for Sloan Hybrid Urinals. The image shows a white urinal mounted on a wall. A green line points from the urinal's flush valve to a small circular inset showing a water-saving device. The background is a wooden wall. The text is overlaid on the right side of the image.

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